## **CLAIM AMENDMENTS**

Please amend the claims as follows:

1. (previously presented) A separable electrical connector for separably, electrically interconnecting the conductors of one multi-conductor cable to the conductors of a second multi-conductor cable, comprising:

at least two multi-conductor cables, each cable having a plurality of at least partially-exposed conductors, with the exposed conductors of two of the cables in proximity to one another, at least one such cable being a multi-axial cable comprising at least two spaced coaxial conductors;

anisotropic conductive elastomer (ACE) in electrical contact with the exposed conductors that are in proximity to one another; and

mechanical structure that holds at least the multi-axial cable and compresses the ACE, to provide electrical signal paths between the conductors of the cables that are in proximity to one another through the ACE.

- 2. (original) The electrical connector of claim 1 in which at least one cable is a ribbon cable.
- 3. (previously presented) The electrical connector of claim 2, further comprising a paddle board having conductors that are directly connected to the conductors of the ribbon cable, with the ACE layer against the conductors of paddle board.
- 4. (cancelled)
- 5. (cancelled)
- 6. (original)The electrical connector of claim 1 in which at least one cable is a flex cable.
- 7. (cancelled)

- 8. (cancelled)
- 9. (previously presented) The electrical connector of claim 1 in which two cables are multiaxial cables each comprising at least two spaced coaxial conductors.
- 10. (previously presented) The electrical connector of claim 9 in which the ACE lies directly against the conductors of both multi-axial cables.
- 11. (previously presented) The electrical connector of claim 9 further comprising printed circuit boards with conductors directly connected to the conductors of each of the multi-axial cables, with the ACE layer against the conductors of both boards.
- 12. (previously presented) The electrical connector of claim 1 in which the mechanical structure comprises a mounting sleeve coupled to at least one multi-axial cable.
- 13. (previously presented) The electrical connector of claim 12 in which the mechanical structure further comprises a clamp assembly coupled to the mounting sleeve.
- 14. (previously presented) The electrical connector of claim 12 in which the mounting sleeve is made by potting the end of the at least one multi-axial cable in a settable medium.
- 15. (cancelled)
- 16. (cancelled)
- 17. (canceled)
- 18. (previously presented) A separable electrical connector for separably, electrically interconnecting the conductors of two flex cables, comprising:

two flex cables, each having a plurality of exposed conductors;

a layer of anisotropic conductive elastomer (ACE) in direct contact with the conductors of both of the flex cables; and means for compressing the ACE, to provide electrical signal paths between the conductors of the cables through the ACE.

- 19. (canceled)
- 20. (canceled)